

File No. 1T. 15 R. 6E

DUPLICATE

County Gallatin

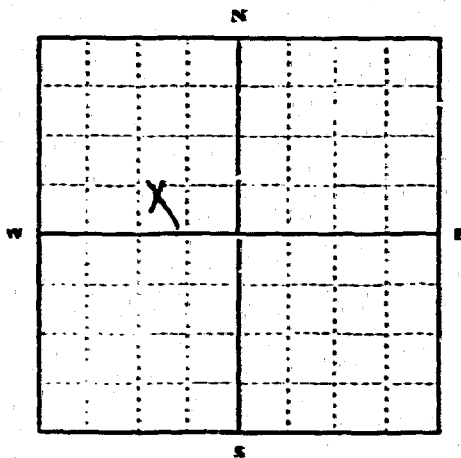
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DEC 27 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Carl E. Vogel of RI Bigman
(Name of Appropriator) (Address) (Town)
County of Gallatin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 NW 1/4 Sec 32 T. 15 R. 6E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Sub-irrigation
Horticultural, Lawn & Garden Irrigation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Since Ranch was
Horticultural

4. The amount of groundwater claimed (in miner's inches or gallons per minute). unlimited Sub-irrigation
any from 160 miner inches

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Sub-irrigation about 90 acres
Sec 32 T. 15 R. 6E

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Sub-irrigation
Well for Horticultural, Lawn, Garden
& Lawn Mow

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well drilled in 1947
Sub-irrigation Date unavailable

8. The depth of water table from 1 foot to unlimited depth

9. So far as it may be available, the type, size and depth of each well, or the general specifications of any other works for the withdrawal of groundwater Drilled well 6 in casing
5 1/2 feet deep

10. The estimated amount of groundwater withdrawn each year. unlimited

11. The log of formations encountered in the drilling of each well if available unavailable
unavailable

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

Carl E. Vogel
Date Dec 26, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

2316

1028

State of Montana } ss.
County of Gallatin }
Filed Dec 26 1968
at 1:05 o'clock P. M.
Carol Walton
COUNTY CLERK & RECORDER
By [Signature]
DEPUTY
Fee \$ 200.00

File No. _____

T 15 R 6 E 32

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DEC 29 1964

Notice of Completion of Groundwater
Appropriation by Means of Well ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

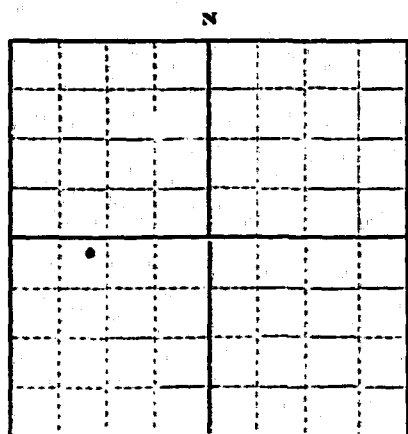
Owner Dave Vogel Jr Address BozemanDriller M. E. Jones Address Bozeman

Date of Notice of Appropriation of Groundwater _____

Date well started Nov. 27, 1964 Date Completed Nov. 28, 1964Type of well Drilled Equipment Used Churn Drill
(dug, driven, bored or drilled) (Churn, drill, rotary or other)Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD. X 19'	1' Above Ground	28	None		



SW 1/4, SW 1/4 Sec 32 T 15 R 6 E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 10 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 28 feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Pump Length of Test 1 Hour

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

17
Driller's License Number

Milton E Jones
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

38194

#1886

Gallatin County, }
State of Montana, } ss.

Filed December 28 1964

at 4:20 o'clock P. M.

CARL L. STUCKY

COUNTY CLERK & RECORDER

By Luella A. Mayfield

DEPUTY

Fee \$ 2.00 pd

Form No. 18
8-60

RECEIVED

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 1 S R. 6 E

County Gallatin
1205 Hillside Lane,
Bozeman, Montana

RECEIVED

Water Well Log

STATE ENGINEER

Owner DAVID VOGEL, SR. Address Bozeman, Montana
Driller Self Address same
Date Started May 15, 1942 Date Completed June 6, 1942
Location: Sec. 32 T. 18 R. 6 E $\frac{1}{4}$ sec. SW $\frac{1}{4}$

Type of well Dug 22 feet deep Equipment used By hand
(Dug, driven, bored, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☒
Industrial ☐ Drainage ☐ Other _____

Casing: 48" ft. to 8 ft ft. Type Corg. Galv. Size at top

Casing: 24" ft. to 14 ft ft. Type Corg. Galv. Size at bottom

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 8 ft to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations $\frac{1}{2}$ inch holes--no screen

Static water level, for non-flowing well: (June 6, 1942) five feet.

Shut-in pressure, for flowing well: 45 lb./sq. in. on: in tank June 6, 1942
(date)

Pumping water level 5 ft feet at 10 gal. per min.

How tested: Used 60 gal. barrel, 600 gal. per hour

Length of test One hour

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

Dug wells, ten feet black dirt and clay, twelve feet coarse gravel.

Bottom will five ft. boulders, the next 9 feet coarse gravel, the eight feet open 48 inches in diameter.

(over)

#214

Gallatin County, ss.
State of Montana.

Filed December 11, 1961

at 1:40 o'clock P.M.

By EARL HALTON
COUNTY CLERK & RECORDER

By Ida J. Morrow
2.00 Pd. DEPUTY

T. '5 R. 6E
County GALLATIN

RECEIVED

STATE ENGINEERS

Location: Sec. 32 T. 15 R. 6E $\frac{1}{4}$ sec. 10⁴ 10⁴

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

774

Gallatin County, ss
State of Montana.

Dec 27, 1961

11:51 a.m.

Carl Walton

COUNTY CLERK & RECORDER

By

Leah M. Napier

DEPUTY

Fee \$

7.00

Form No. 18
8-60

T. 15 R. 6E

County GALLATIN

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

STATE ENGINEER

Water Well Log

	32	
*		

Owner EDWARD H. VOGEL Address BOZEMAN MONT

Driller _____ Address _____

Date Started _____ Date Completed 1865

Location: Sec. 32 T. 15 R. 6E $\frac{1}{4}$ sec. Sec 4 Sec 4

Type of well DUG Equipment used Hand
(Dug, driven, bored, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other _____

Casing: _____ ft. to 25 ft. Type ROCK Size 3" DIAM.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____. Ft. _____ to ft. _____

Type of screen or perforations _____

Static water level, for non-flowing well: _____ feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date, _____)

Pumping water level _____ feet at 5 gal. per min. _____

How tested: HAND

Length of test 1 HR.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

775

Callahan County,
State of Montana. SS.

Filed Dec 27, 1961

at 11:52 o'clock 9. M.

COUNTY CLERK & RECORDER

By Frank J. Mayberry
DEPUTY

Fee \$ 7.00 pd.

Form No. 18
8-60

32.

T. 15 R. 6E
County GALLATIN

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JUN 24 1961

Water Well Log

STATE ENGINEER

Owner EDWARD H. VOGEL Address BOZEMAN MONT

Driller _____ Address _____

Date Started _____ Date Completed 1900

Location: Sec. 32 T. 15 R. 6E $\frac{1}{4}$ sec. SW 1/4

Type of well DUG Equipment used HAND
(Dug, driven, bored, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other _____

Casing: 20 ft. to _____ ft. Type TILE Size 18 in

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____. Ft. _____ to ft. _____

Type of screen or perforations _____

Static water level, for non-flowing well: _____ feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 6 feet at 5 gal. per min.

How tested: HAND

Length of test 1 HR

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

Mount Baldy Sub 1/2 in. Lts 47-

(over)

276

Gallatin County,)
State of Montana.) ss.
Filed Dec 27, 1961
at 11.53 o'clock A. M.

COUNTY CLERK / RECORDER
By Donald A. Halverson
DEPUTY
Fee \$ 2.09 ad.

File No. _____

MONTANA WATER RESOURCES BOARD

DUPLICATE

RECEIVEDT 18 R 6E
County Gallatin 32

LOG

DEC 7 1967

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD**Notice of Completion of Groundwater
Appropriation by Means of Well**
DEVELOPED AFTER JANUARY 1, 1962

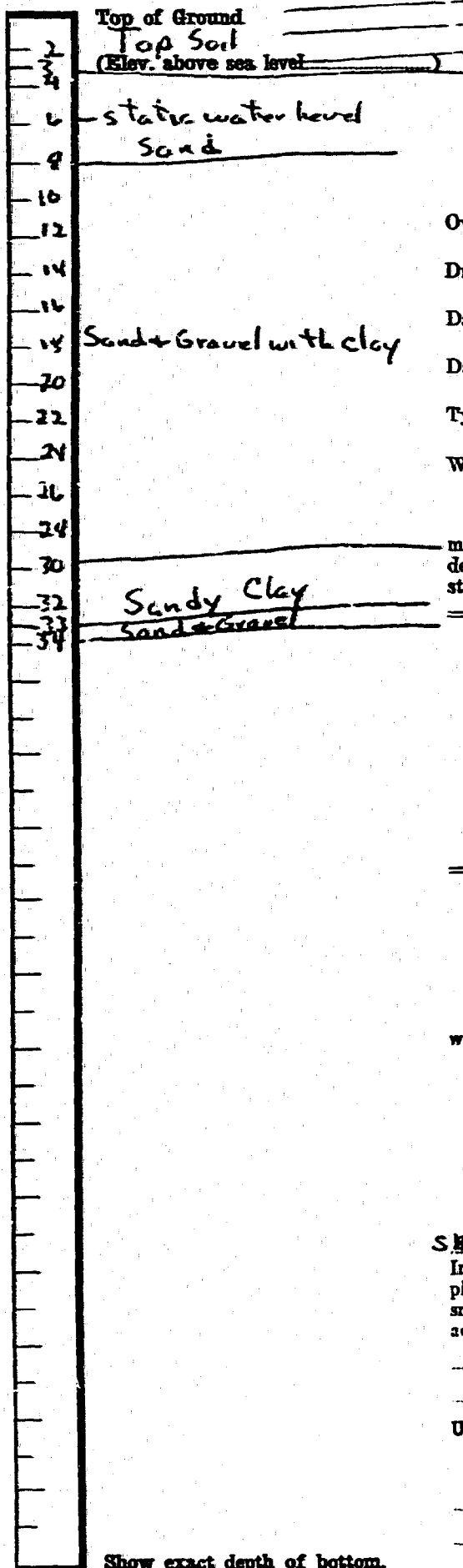
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Owner W. Glenn & Okarche M. /VOGEL Address 2016 Bridger Drive
Bozeman, Montana
Driller Donald C. Jones Address 2107 Bridger Dr.
Bozeman, Mont.

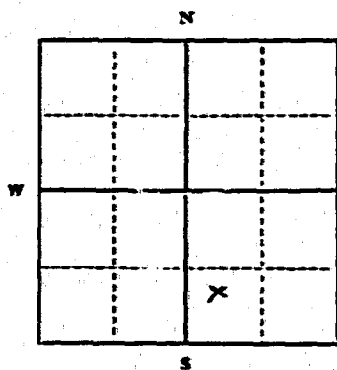
Date of Notice of appropriation of groundwater _____

Date well started Sept. 25, 1967 Date completed Sept. 27, 1967Type of well Drilled Equipment used Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 in	6 5/8" OD 19#	2 1/2' below Ground	33 1/2'	—	—	—

SW 1/4 Sec 32 T.15 R.6E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.Static Water Level for non-flowing well 6 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 34 feet
at 25 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Pump

Length of Test _____

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

17
Driller's License NumberDonald C. Jones
Driller's Signature

42640

#7138

State of Montana } ss.
County of Gallatin }

Filed Nov. 30, 1967

at 1:45 o'clock P. M.

Carl L. Stucky

County Clerk & Recorder

By Paul A. Maffey

Deputy

Fee \$ 7.00

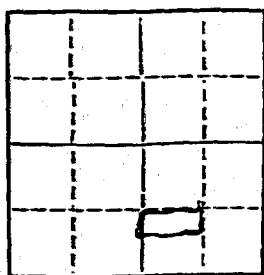
RECEIVED

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T 15 R 6E 32
County Gallatin

WATER WELL LOG



Owner Richard Wall Address Bozeman
Driller M E Jones Address Helena
Date Started April 17, 1958 Date Completed April 30, 1958
Location: Sec 32 T 15 R 6E 1/4 sec N 1/2 of SW 1/4 of SE 1/4
Ed Vogel Subdivision N 1/2 Lot No.

Type of well Drilled Equipment used Churn Drill
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☒
Industrial ☐ Drainage ☐ Other: _____

Casing: Surface ft. to 95 ft. Type Std. Pipe Size 6" I.D.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 65 to ft. 70 Ft. _____ to ft. _____

Type of screen or perforations Made With Perforator Which Slots Pipe

Static Water level, for non-flowing well: 18' feet.

Shut-in pressure, for flowing well: 18' lb./sq. in. on: _____ (date) _____

Pumping water level 102, 95, 70 feet at 5 gal. per min.

How tested: Bail

Length of test 1 Hour

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

[illegible]

File No. _____

T 15 R 6E

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

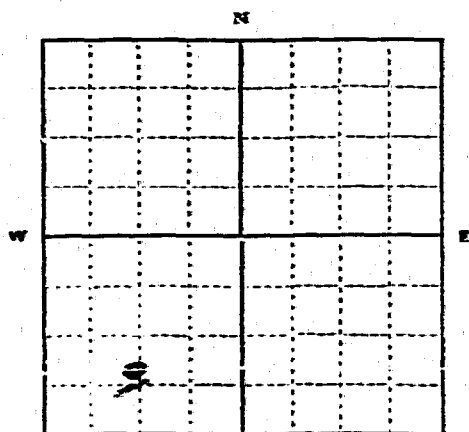
JAN 16 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Frank E. & Delma Hillen, of 1705 Bridger Drive, Bozeman
(Name of Appropriator) (Address) (Town)

County of Yellowstone State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



MT. BALDY SUB-SIV. Lot 11 & 12

Section 32 T. 15 R. 6E

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based HOUSE HOLD AND IRRIGATION
3. Date or approximate date of earliest beneficial use; and how continuous the use has been APRIL 1959 AND IN CONTINUOUS USE
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 GALLONS PER MINUTE
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof 1 ACRE
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 6" WELL SUBMERSABLE PUMP
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater APRIL-1959
8. The depth of water table 11 FEET
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 1 6" WELL - 32 FEET DEEP
10. The estimated amount of groundwater withdrawn each year 900,000
11. The log of formations encountered in the drilling of each well if available 0-9 CLAY
9-32 SAND AND GRAVEL
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record HOUSE AND LOT RECORDED WITH COUNTY ASSESSOR

Delma Hillen

Signature of Owner

Date 12/31/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

36056

State of Montana)
County of Gallatin) ss.

Filed Dec 31, 1963

at 3:49 o'clock P. M.

Earl Walton
COUNTY CLERK & RECORDER

By [Signature]

Esq. 20 DEPUTY

Form No. 8
8-60

32

T. 15 R. 6E
County Gallatin

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

Water Well Log

Owner Warren Jay Yaley Address 1509 Hillside Lane
Bozeman Montana
Driller M. E. Jones Address Bozeman Montana
Date Started May 24 1960 Date Completed May 27 1960
Location: Sec. 32 T. 15 R. 6E $\frac{1}{4}$ sec. SW

Type of well Drilled Equipment used Tram Drill
(Dug, driven, or drilled) (Churn, drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☒
Industrial ☐ Drainage ☐ Other _____

Casing: Surface ft. to 60 ft. Type Steel Size 6 5/8 O.D. 15"

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or screened: Ft. None to ft. ____ Ft. ____ to ft. ____

Type of screen or perforations None

Static water level, for non-flowing well: 12 feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____
(date)

Pumping water level 60 feet at 15 gal. per min.

How tested: Surf.

Length of test 2 ours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

[illegible]

#135

File No.

RECEIVED
JUL 1 1962

T 1S R 6E

DUPLICATE

County Gallatin

STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

	Top of Ground	Top Soil
2	(Elev. above sea level) <u>Abt. 4900</u>	
4	<u>SAND</u>	
6		
8		
10		
12		
14		
16	<u>Gravel and Sand</u>	
18		
20		
22		
24		
26		
28	<u>Clay</u>	
30		
32		
34		
36	<u>Gravel with Clay</u>	
38		
40		
42		
44		
46		
48		
50		
52	<u>Clay</u>	
54		
56	<u>Bottom</u>	
	<u>Gravel and Sand</u>	

One Acre s
SW 1/4 Sec. 32 T. 1S R. 6E
indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Alan Zetler, et ux Address 1705 Hillside Lane Bozeman, MontanaDriller M.E. Jones Address Bozeman, MontanaDate of Notice of Appropriation of Groundwater 6-23-62Date well started 6-23-62 Date Completed 6-26-62Type of well Drilled Equipment Used Churn Drill
(dug, driven, bored or drilled) (Churn, drill, rotary or other)Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 inch	6 5/8 OD by 15#	Grade	55	None	None	None

Static Water Level for non-flowing Well 12 feet.Shut-in Pressure for Flowing Well Not applicablePumping Water Level 55 feet at 10 gal. per minute.Discharge in gal. per min. of flowing well Not applicableHow Tested PUMP Length of Test 2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Pitless adapter used 5' below top of casing. Well seal used at top of casing.

17
Driller's License Number

M. E. Jones
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

#514

State of Montana }
County of Gallatin } ss:
Filed July 12, 1962
at 10:30 o'clock A M.
EARL WALTON
COUNTY CLERK & RECORDER
By Leah C. H. Hapner
DEPUTY
Fee \$ 2.00 pd.

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—1962

RECEIVED
JUL 6 1962

File No. _____

DUPLICATE

County STATE ENGINEERSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

15-CE

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Merle A. Bilsberry Jr. Address Bismarck, Mont.Driller Donald C. Jones Address Bismarck, Mont.

Date of Notice of Appropriation of Groundwater _____

Date well started May 23, 1962 Date Completed May 28, 1962Type of well Drilled Equipment Used Churn Drill
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Top of Ground
(Elev. above sea level _____)

2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46

Top Soil

Clay & Gravel

Sand & Gravel

Clay

Sand & Fine Gravel

Clay

Sand & Fine Gravel

SE 1/4 Sec. 33 T. 15 R. 6E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8 O.D. x 15#	1 1/2' above ground	39 1/2'	3" slots	24	37

Static Water Level for non-flowing Well 6 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 46 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Pump Length of Test 1 Hour

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) _____

17
Driller's License Number
Donald C. Jones
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

1789

#511

State of Montana } ss.
County of Gallatin }

Filed July 5, 1962

at 8:15 o'clock A M.

Earl Walton

COUNTY CLERK & RECORDER

By Lucille A. Maxwell

DEPUTY

Fee \$ 1.00 pd.

File No. _____

T. 15 R. 6E

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
AUG 28 1963

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

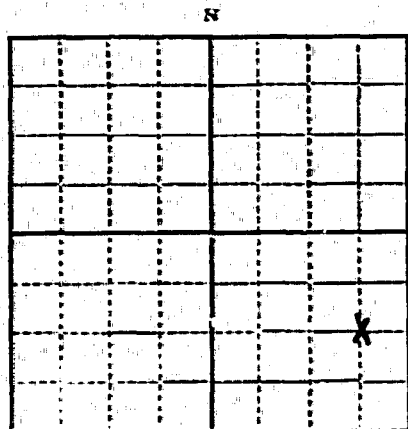
Date of Appropriation of Groundwater 1959Owner Raymond Goldenstein Address RR #2 Bozeman, Mont.

Contractor (if any) _____

Address of Contractor _____

Date Started _____ Date Completed _____

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. A natural spring flowing down mountain side



E 1/2 E 1/2 - 1/4 SE Sec. 33 T. 15 R. 6E
Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use use all
year for watering cattle and irrigation
for irrigating pasture - app 5 gallons per
minute - measured with gallon pail
more flowing in the spring and winter

Signature of Owner Raymond GoldensteinDate 8/26/63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

695

State of Montana }
County of Gallatin } ss.
Filed Aug. 27 1963
at 4:30 o'clock P. M.
Carl Hallen
COUNTY CLERK & RECORDER
By [Signature]
DEPUTY
Fee \$ 2.00

File No. _____

DUPLICATE

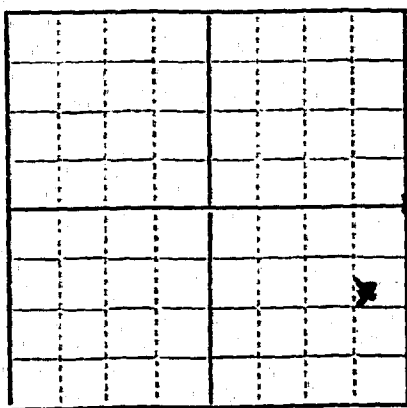
T. 15 R. 6E

County GallatinRECEIVED
AUG 28 1963STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

Roger D. Solderstein of RR#2 Bozeman
 (Name of Appropriator) (Address) (Town)
 County of Gallatin State of Montana
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



E 1/2 E 1/4 SE Sec 33 T. 15 R. 6E

Indicate point of appropriation
 and place of use, if possible.
 Each small square represents 10
 acres.

2. The beneficial use on which the claim is based
Household & Garden needs

3. Date or approximate date of earliest beneficial use; and how continuous the use has been December 19, 1959
Continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5-10 GPM

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Roger D. Solderstein

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Deep well water pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Dec. 12, 1959 completed Dec. 19, 1959

8. The depth of water table. 20 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Drilled well - 6 inch casing to the depth of 70 ft

10. The estimated amount of groundwater withdrawn each year.

11. The log of formations encountered in the drilling of each well if available. 3' gravel - 13 ft Sand and clay - 16 ft Clay - 3 ft gravel and sand - 3 ft gravel and clay - 1 ft gravel and sand - 9 ft clay - 1 ft gravel and sand - 14 ft clay - 2 ft gravel - 50 ft clay

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Roger D. Solderstein

Date 8/26/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

694

State of Montana } ss.
County of Gallatin }
Filed Aug. 27 1963
at 4:15 o'clock P. M.
Carl W. Wadon
COUNTY CLERK & RECORDER
By A. S. [Signature]
DEPUTY
Fee \$ 2.00

File No. _____

T. 1S R. 6E

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

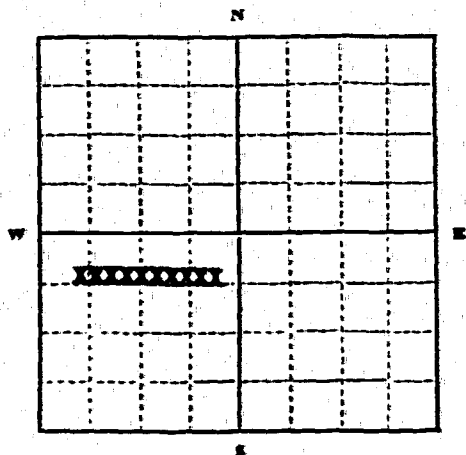
RECEIVED

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater _____

Owner Verna M. Green Address Rt. 2, Box 313,
Bozeman, MontanaContractor (if any) not applicableAddress of Contractor not applicableDate Started n/a Date Completed n/aDescribe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable. Sub-irrigationN²S⁴ ¼ Sec. 33 T.1S. R. 6EIndicate point of appropriation
and place of use, if possible.Quantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use _____

Use is intermittent, generally extending from
early spring to late fallSignature of Owner Verna M. GreenDate June 28, 1962

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the
works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana
Bureau of Mines and Geology and Quadruplicate for the Appropriator.

State of Montana } ss.
County of Gallatin }

Filed June 29, 1962
at 1:52 o'clock P.M.

Earl Walton
COUNTY CLERK & RECORDER
By [Signature]
DEPUTY

Fee \$ 2.00

GW3

File No. _____

DUPLICATE

T 15 R 6E

County Callahan

RECEIVED
DEC 2 1963

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater September 5, 1948

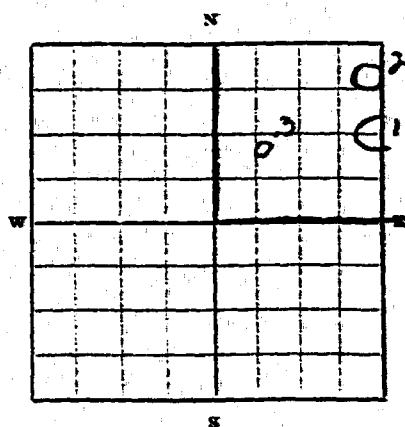
Owner William H. & Marjorie R. Huffine Address Rt. 2, Bozeman, Montana

Contractor (if any) _____

Address of Contractor _____

Date Started _____ Date Completed _____

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. #1 - Pips runs into underground spring, gravity flow. #2 - Pond formed by springs underground. #3 - Flow from underground spring, runs off.



Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use _____

NE 1/4 Sec 33 T 15 R 6E

Indicate point of appropriation and place of use, if possible.

#1 - Sufficient quantity of water to supply house, barn and four watering troughs with continual flow of water. #2 - Water for stock on pasture. #3 - Water for stock on pasture.

Signature of Owner

William H. Huffine
Marjorie R. Huffine
Date November 20, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

791

State of Montana }
County of Gallatin } ss.

Filed November 29, 1963
at 2:10 o'clock P. M.

EARL WALTON

COUNTY CLERK & RECORDER

By Donald A. Maple
DEPUTY

Fee \$2.00 pd

File No. _____

T 15 R 6 E 33

DUPLICATE

MONTANA WATER RESOURCES BOARD

RECEIVEDCounty Hell Creek

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
Top Soil + Clay
(Elev. above sea level) _____

static water level _____

Gravel bound in Clay

Gravel + Sandy Clay

Gravel bound in Clay

Bottom of well

SE 1/4 Sec. 33 T. 15 R. 6 E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Carlton W. Shaw Address Rt. 2, Bozeman
 Driller Donald C. Jones Address 2107 Bridger Dr. Bozeman, Mont.

Date of Notice of Appropriation of Groundwater _____

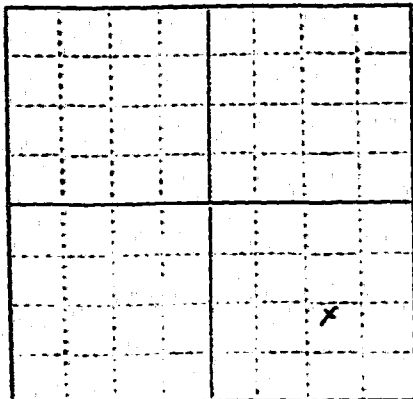
Date well started Nov. 25, 1967 Date Completed Nov. 29, 1967

Type of well Drilled Equipment Used Churn Drill
 (dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐
 Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 in.	6 5/8" 20 lb	3' above Ground	32 1/2'	—	—	—
1 1/2"	1 1/2"					

Static Water Level for non-flowing Well 5 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 40 feet at 4 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Pump Length of Test 2 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Driller's License Number 17Driller's Signature Donald C. Jones

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

72,666

2139

State of Montana
County of Gallatin ss.

Filed Dec 13, 1967

at 11:00 o'clock A.M.

Carl L. Sturkey

County Clerk & Recorder

By Alta M. Hargrave

Deputy

Fee \$ 900.00

File No. _____

DUPLICATE

T 15 R 6 E

County FlatheadSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

AUG 22 1963

**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level _____)

0' - 12' Coarse Gravels.

12' - 38' Sand and gravels

38' - 78' Dirty sand and little water

78' - 97' Same but a little

97' - 98' tight coarse

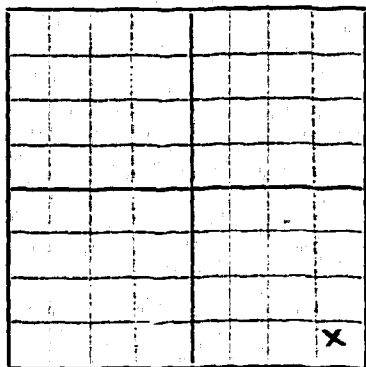
98' - 99' gravels (dry)

T.D. 98'

Owner Dr. Carlton Shaw Address Bozeman, Mont.Driller Van Dyke Drilling Co. Address Bozeman Mont.Date of Notice of Appropriation of Groundwater noneDate well started June 12/63 Date Completed June 26/63Type of well Drilled Equipment Used Cable tools(dug, driven, bored or
drilled)(Churn, drill, rotary or
other)Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" 17 # P.E.	0	97'	2" slot	38	43
				x	58	62
				2 1/2"	78	83



SE 1/4 33 Sec. T15 R6E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 10 feet.Shut-in Pressure for Flowing Well nonePumping Water Level 79 feet at 12 gal. per minute.Discharge in gal. per min. of flowing well noneHow Tested Bailer Length of Test 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

License No. 1

Driller's License Number

Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

690

State of Montana } ss.
County of Gallatin }
Filed August 21, 1963
at 4:30 up clock P M.
Carl Wallen
COUNTY CLERK & RECORDER
By [Signature]
DEPUTY
Fee \$ 2.00 per

File No. _____

T 11 R 67

DUPLICATE

County Billings

LOG

MONTANA WATER RESOURCES BOARD

RECEIVED

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

SEP 17 1968

Top of Ground

(Elev. above sea level _____)

Notice of Completion of Groundwater**Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 271, Montana Session Laws, 1961)

0-22 Top Soil
 22-24 Gravel Sand & First
 water
 24-29 clay
 29-30 Rock & water
 30' Bottom of well

Owner Volney J. SteeleAddress Bridge Road,
Bozeman, MontanaDriller Harold HulbertAddress Rt 1 Bozeman, MontDate of Notice of appropriation of groundwater March 2, 1968Date well started March 30, 1968 Date completed April 1, 1968Type of well DrilledEquipment used Cable Tool

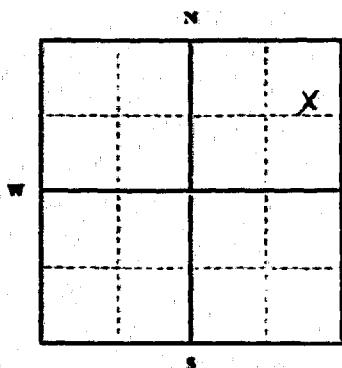
(Dug, Driven, bored or drilled)

(Churn drill, rotary or other)

 Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
 Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7"	19 Lb 6 5/8 O.D.	3 above	28'	None		

Static Water Level for non-flowing well 11 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 15 feet
at 60 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Pump & BailorLength of Test 4 hrs together & 2 hrs

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

1/4 Sec. 7 T. 15 R. 6
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Driller's License Number 47

Harold B. Hulbert
 Driller's Signature

44, 576

#2190

State of Montana | ss.
County of Gallatin
Filed Sept. 16, 1968
at 8:20 o'clock A.M.
CARL L. STUCKY
County Clerk & Recorder
By James A. Maxwell
Deputy
Fee \$ 2.00 pd.

File No. _____

MAR 20 1967

T 15 R 6E 33

DUPLICATE

County Gallatin

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERTop of Ground
(Elev. above sea level _____)**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Hillington O. Young Address Route 2, BozemanDriller Donald C. Jones Address Bozeman, Mont.

Date of Notice of appropriation of groundwater _____

Date well started Aug. 1, 1966 Date completed Aug. 5, 1966Type of well Drill Equipment used Churn
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

2
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72
74
76
78
80

Clay + Rocks

Gravel + Rocks

Sand in Clay

Static water level

Sand + Fine Gravel

Sand + Gravel bound in Clay

Sand + Fine Gravel

Sand + Gravel bound in Clay

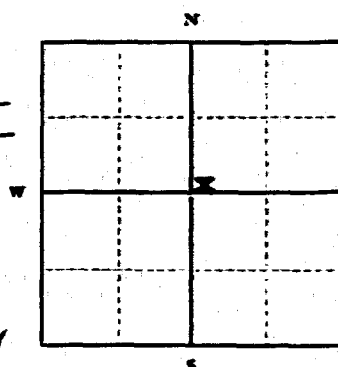
Sand + Fine Gravel

Sand, Gravel + Clay

Sand + Gravel

Bottom of well

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 in.	6 5/8" 40 lb.	1 1/2 ft above ground	7 1/2	—	—	—

Static Water Level for non-flowing well 73 1/2 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 80 feetat 15 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested PumpLength of Test 1 hr. 15 min.

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

Sec. 33, T. 15, R. 6E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Driller's License Number 17Driller's Signature Donald C. Jones

41809

#2078

State of Montana } ss.
County of Gallatin }
Filed March 15, 1967
at 4:05 o'clock P.M.
CARL L. STUCKY
County Clerk & Recorder
By Paul A. Maple
Deputy
Fee \$ 2.00 pd

34

File No. _____

T. S. R. E.

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1963

STATE ENGINEER
**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 22 1963Owner Chas F. Papke Address R# 2 Bezenan

Contractor (if any) _____

Address of Contractor _____

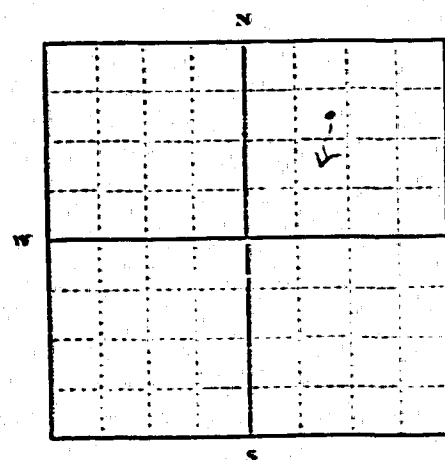
Date Started Dec 22 1963 Date Completed Dec 24 1963

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable.

Natural SpringStock water for 75 head of cattle

Quantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use _____

All year RoundSignature of Owner Chas F PapkeDate Dec 24 1963NE 1/4 Sec 34 T.1S. R.6EIndicate point of appropriation
and place of use, if possible.

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

12133

1013

State of Montana { ss.
County of Gallatin {
Filed Dec 23, 1963
at 4:25 o'clock PM
Carl Halpin COUNTY CLERK
By For DEPUTY
Fee \$ 2.00

File No. _____

T. S. R. G. E.

DUPLICATE

County Gallatin Co

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

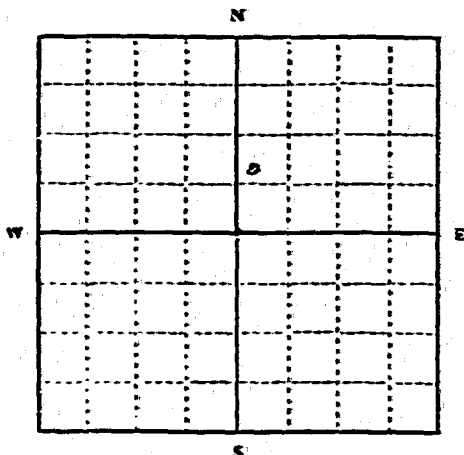
RECEIVED
DEC 26 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Chas F Pappe of Bozeman R # 2
(Name of Appropriator) (Address) (Town)
County of Gallatin State of Mont
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec 34 T.15 R.6 E

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based Domestic and Culinary purposes
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept 1960
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 50 gal. per hour
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
8. The depth of water table 8 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Depth of 12 12 feet
10. The estimated amount of groundwater withdrawn each year 50 gal per day
11. The log of formations encountered in the drilling of each well if available
Glacial Drift
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

Chas F PappeDate Dec 24 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of
Mines and Geology, and Quaduplicate for the Appropriator.

12134

1614

State of Montana }
County of Gallatin } ss.
Filed Nov 23, 1963
at 427 o'clock P. M.
Carl Walton
COUNTY CLERK & RECORDER
By [Signature]
DEPUTY
Fee \$ 2.00

File No. _____

T 1 S R 6 E

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963

Notice of Completion of Groundwater Appropriation
Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

No. 3

Spring

11/10/96

No. 1

Spring

5/18/83

No. 2

Spring

11/10/96

Date of Appropriation of Groundwater 6/25/83

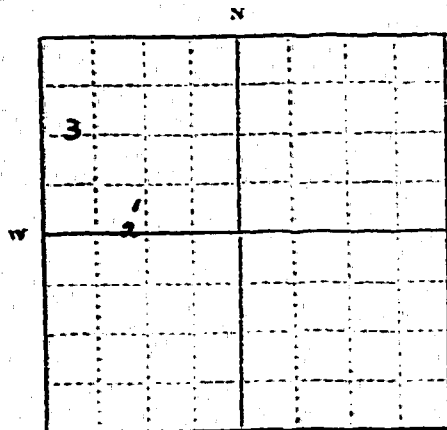
U.S. Fish and

Owner Wildlife Service Address Boseman, Montana

Contractor (if any) _____

Address of Contractor _____

Date Started _____ Date Completed _____



Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Ground water obtained by use of

natural springs and gravity flow. The No. 1 spring is a series of cold water springs, temperature approx. 48 degrees F. The No. 2 spring is a warm water spring with temperature of approx. 77 degrees F. The No. 3 spring has a temperature of approx. 46 degrees F.

Flow of No. 1 spring is from 600 to 2,000 gallons per min.

Flow of No. 2 spring is from 80 to 250 g.p.m.

Flow of No. 3 spring is from 15 to 50 g.p.m.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent Water flow is measured by use of weir. Use of water is constant and all of the water issuing from the springs is used throughout the year.

NW 1/4 Sec 34 T1S R6E

Indicate point of appropriation and place of use, if possible.

Signature of Owner U. S. Fish and Wildlife Service
By Loyd Justus, Manager

Date December 19, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

#933

State of Montana } ss.
County of Gallatin }

Filed December 20, 1963

at 8:40 o'clock A M.

EARL WATSON
COUNTY CLERK & RECORDER

By Scott A. Russell
DEPUTY

Fee \$ 2.00 pd

File No. _____

T 1 S R 6 E

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 23 1963

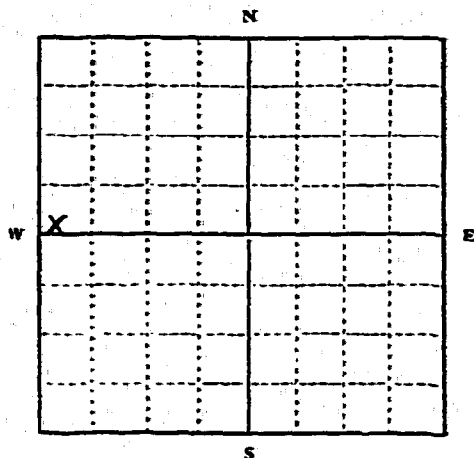
Declaration of Vested Groundwater Rights

(Under Chapter 23, Montana Session Laws, 1961)

STATE ENGINEER

U.S. Fish and Wildlife Service,
1 by Loyd Justus, Mgr. Acting as agent, of Route 2 Bosman
(Name of Appropriator) (Address) (Town)

County of Gallatin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW $\frac{1}{4}$ NW Sec 34 T.15 R.6E

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based
Domestic use, drinking purposes, lawn sprinkling.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been November 10, 1960
Water has been used continuously since that date.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 19 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Lawn sprinkling one quarter of an acre or less, lands owned by the U. S. Fish and Wildlife Service.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Water is pumped from the well by use of electrically driven pump.
Well is located near the south west corner of the SW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 34, T 1 S, R 6 E
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Drilling was started 5/29/60 and completed 6/26/60
8. The depth of water table Static water level 4' 7" Casing perforated 51 to 61 feet.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Cased with 12" steel casing from 0 ft. to 114 feet.
No casing from 114 ft. to 200 ft.
10. The estimated amount of groundwater withdrawn each year 6,500,000 gallons per year
11. The log of formations encountered in the drilling of each well if available. 0 - 3 black dirt and trash, 3 - 14 broken rock and gravel imbedded in black sandy dirt, 14 - 36 broken rock and gravel imbedded in yellow tan clay, 36 - 41 1/2 yellow clay, 41 1/2 - 62 broken limestone with yellow clay in seams and cracks, 62 - 109 Breccia and Gouge, 109 - 196 Breccia and Gouge, Breccia - broken gray limestone. Gouge - yellow and blue green colored, clay like
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record No county record

U.S. Fish and Wildlife Service
Signature of Owner by Loyd Justus Manager
Bosman National Fish Hatchery
Date December 19, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

#934

State of Montana }
County of Gallatin } ss.

Filed December 20, 1963
at 8:42 o'clock A.M.

EARL WALTON

COUNTY CLERK & RECORDER

By Paul M. Maguire

DEPUTY

Fee \$ 2.00 pd

34

T 1 S R 6 E

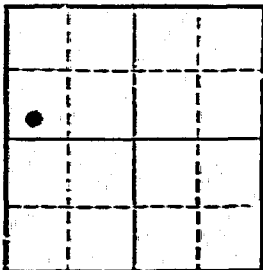
County Gallatin

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JUN 5 1961

WATER WELL LOG

STATE ENGINEER



Owner United States of America Address Box 3737, Portland, Ore.
By & through Bureau of Sports Fisheries & Wildlife

Driller Liberty Drilling & Pump Co. Address Box 330, Missoula, Mont.

Date Started 5/21/60 Date Completed 6/25/60

Location: Sec 34 T 1S R 6E $\frac{1}{4}$ sec. NE
Located at Bowman National Fish Hatchery

Type of well Drilled Equipment used Churn drill
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other: _____

Casing: 0 ft. to 114 ft. Type _____ Size 12"

No Casing: 114 ft. to 206 ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

casing
Perforated or screened: ft. 51 to ft. 61 Ft. _____ to ft. _____

Type of screen or perforations 8 continuous 1" slots per foot

Static Water level, for non-flowing well: 4' 1" feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 61 feet at 19 gal. per min.

How tested: Pumping for 16 hours

Length of test 12 hours at 19 gal./min.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	3	Black dirt and trash
3	14	Broken rock and gravel imbedded in black sandy dirt
14	36	Broken rock and gravel imbedded in yellow-tan clay
36	41½	Yellow clay
41½	62	Broken limestone with yellow clay in seams and cracks
62	109	Breccia and Gouge
		Breccia - Broken gray limestone
		Gouge - Yellow colored and clay-like
109	151	Breccia and Gouge
		Breccia - Broken gray limestone
		Gouge - Blu-green colored and clay-like
151	196	Breccia and Gouge
		Breccia - Broken gray limestone
		Gouge - Yellow-tan color and clay-like
196	200	Light gray colored limestone - hard, solid and dense

36106

Gallatin County, ss.
State of Montana
Filed June 30, 1961
8:40 a.m.
Cecil Hudson
County Clerk & Recorder
By Loy R. Powell
Deputy

Fee \$

34

File No. _____

T. 1S R. 6E

DUPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 10 1963

Notice of Completion of Groundwater Appropriation
Without Well

STATE ENGINEER

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1904
United States of America

Owner (Forest Service) Address Bozeman, Montana

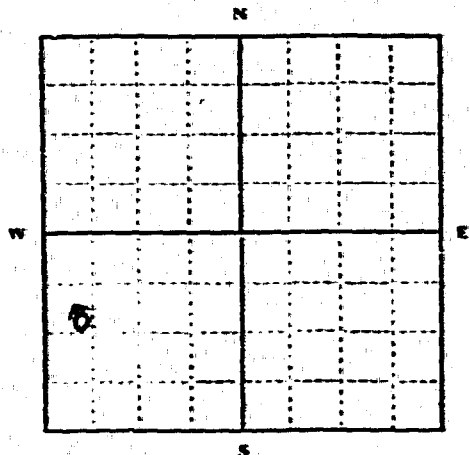
Contractor (if any) N/A

Address of Contractor N/A

Date Started 1904 Date Completed 1904

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

Spring



Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use

Bridger Spring - 6 G.P.M. - measured flow.

Use period: Year round domestic and stock watering use.

Section 34 1/4 Sec. 34 T. 1S R. 6E

Indicate point of appropriation and place of use, if possible.

Bridger Spring
(Administrative Site)

UNITED STATES OF AMERICA

Signature of Owner By [Signature]

Date December 4, 1963

This form to be prepared by contractor (if any), otherwise by the owner

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

137

#826

State of Montana }
County of Gallatin } ss.

Filed December 9 1963
at 11:56 o'clock A.M.

EARL WALTON

COUNTY CLERK & RECORDER

By Paul H. Maxwell

DEPUTY

Fee \$ 2.00

2225

State of Montana ss.
County of Gallatin

Filed Mar. 10, 1969

at 3:00 o'clock P.M.

Carl L. Stucky
County Clerk & Recorder

By _____ Deputy

Fee \$ 2:00 PD

File No. _____

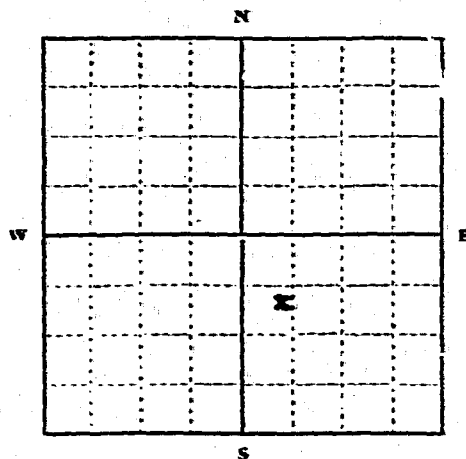
T 1S R 6E
County Callatin

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERRECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Jacob B. Mast of Route 2 Bosman
(Name of Appropriator) (Address) (Town)
County of Callatin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

NW 1/4 Sec. 35 T. 1S R. 6E

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based
Domestic, yard & garden (Also 50 acres sub-irrigated land in SE 1/4 Sec. 35, 1S 6E)
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
October 10, 1963
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
10 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
1 acre
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
October 10, 1963
8. The depth of water table
approximately 6 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
16 feet deep 3/8 inches in diameter, galvanized casing
10. The estimated amount of groundwater withdrawn each year
11. The log of formations encountered in the drilling of each well if available
Sand & gravel
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner Jacob B. Mast
Date 12-26-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology; and Quadruplicate for the Appropriator.

14628

1063

State of Montana }
County of Gallatin } ss.
Filed Dec 27 1953
at 1032 o'clock A. M.
Carl Walton
COUNTY CLERK & RECORDER
By [Signature]
DEPUTY
Fee \$ 25.00

36

File No. _____

T. S. R. E.

TRIPLICATE

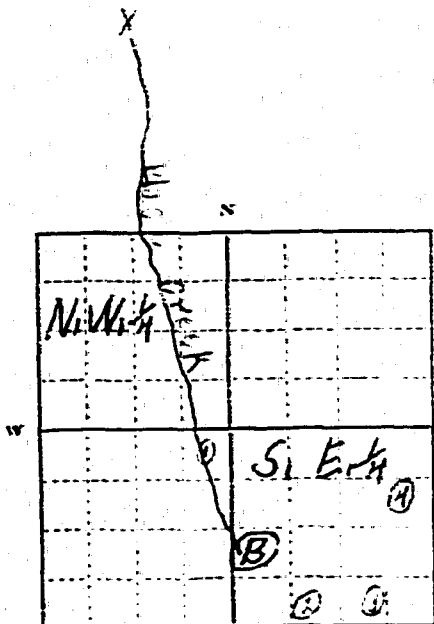
County Blaine

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)



S. E. 1/4
Indicate point of appropriation
and place of use, if possible.

Date of Appropriation of Groundwater _____

Owner J. J. Christ Address RT. 2 Bozeman

Contractor (if any) _____

Address of Contractor _____

Date Started _____ Date Completed _____

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural springs

(1), (2), (3), (4).
① is piped from location on map to
the house from spring creek
unit is fed by spring

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use Montana

year.

Signature of Owner J. J. Christ

Date 12/23/63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

4663

36

File No. _____

T 15 R 6 E

TRIPLICATE

County Gallatin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater _____

Owner L. S. Christip Address RT. 2 Bozeman

Contractor (if any) _____

Address of Contractor _____

Date Started _____ Date Completed _____

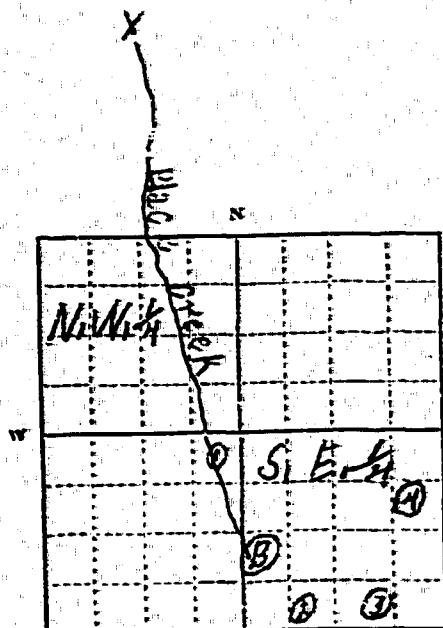
Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable Natural springs

(1), (3), (4).

(1) is piped from location on map to buildings from spring creek
which is feed by springs

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use 12 Month
year.



S. E. 1/4 Sec. 15 T. 15 R. 6 E
Indicate point of appropriation and place of use, if possible.

Signature of Owner L. S. Christip

Date 12/23/63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

4663

1101

State of Montana (ss.
County of Gallatin)

Filed Dec 27 1963
at 3:15 o'clock P.M.

Carl Wallis

COUNTY CLERK & RECORDER

By [Signature] DEPUTY

See 2209

File No. _____

T 15 R 6 E

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

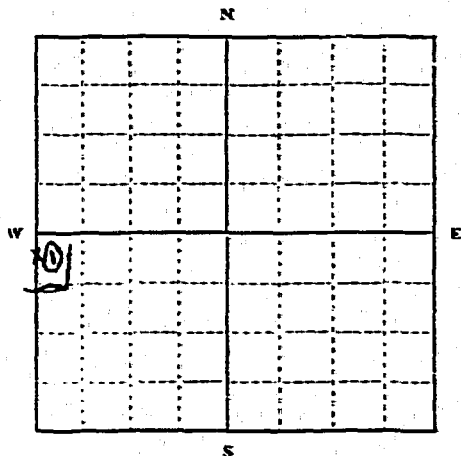
RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

Laurence J. Christil (Name of Appropriator), of Box 300 Bozeman (Address) (Town)

County of Gallatin State of Mont.
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec 36 T. 15 R. 6 E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Irrigation & domestic, dairy
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1912
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof hard & garden
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well location

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater _____
8. The depth of water table 28 ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Well drilled 56' first 28' lost water at 28' solid rock rest of way 6" Well casing
10. The estimated amount of groundwater withdrawn each year 200,000 gals.
11. The log of formations encountered in the drilling of each well if available _____
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record _____

Signature of Owner Laurence J. Christil

Date 12/13/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder: Duplicate to the State Engineer: Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

14664

File No. _____

T. 15 R. 68

DUPLICATE

County Gallatin

LOG

Top of Ground

(Elev. above sea level _____)

0-63' Clays. Dry.
 63-64' Brecken sharp
 Mountain rock.
 Dry.
 64-87' Sandy clays.
 Little water.
 87-88' Sharp Mountain
 broken rock.
 Water.

T.D. 88'

MONTANA WATER RESOURCES BOARD

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Notice of Completion of Groundwater
Appropriation by Means of Well

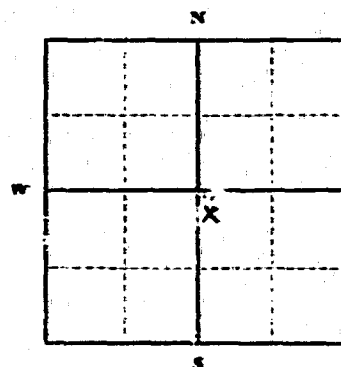
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner JAKE MAST Address BOZEMAN, MONTANADriller VAN DYKEN DRILLING CO. Address BOZEMAN, MONTANADate of Notice of appropriation of groundwater NONEDate well started 10/18/68 Date completed 11/12/68Type of well Drilled Equipment used Cable tools.
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" O.D. 17# New Tested.	0	88	NONE		

Static Water Level for non-flowing well 40 feet.Shut-in Pressure for Flowing Well NONEPumping Water Level 50 feet
at 25 gal. per minute.Discharge in gal. per min. of flowing well NONEHow Tested BailerLength of Test 2 Hrs.Remarks: (Gravel packing, cementing, packers, type of shutoff) Puddled clayshutoff outside of casing
from 0' to 88'

Sec. 35 T. 15 R. 68
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

LICENSE NO. 1

Driller's License Number

Bert Van Dyken
 Driller's Signature
 Bert Van Dyken

451051